Neutral Atom Sensor

Completed Technology Project (2012 - 2014)

Project Introduction
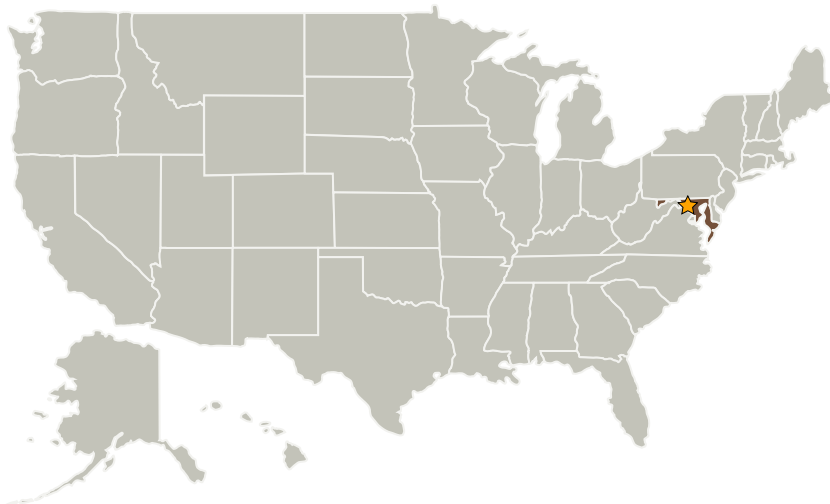
The Neutral Atom Sensor Project proposes to prototype a neutral atom sensor to obtain composition, enery and angle measurements demonstration.

The Neutral Atom Sensor Project examines advances in energetic neutral atom (ENA) imager for broad planetary applications.

Anticipated Benefits

Neutral atom sensor with better resolution

Primary U.S. Work Locations and Key Partners

Neutral Atom Sensor

Table of Contents

Organizations Performing Work	Role	Type	Location
⭐Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations
Maryland

Stories

FASTSAT Observations Reveal Connections that Could Explain Atmospheric Loss on Smaller Planets
(https://techport.nasa.gov/file/3094)

Project Website:

http://sciences.gsfc.nasa.gov/sed/

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Project Management
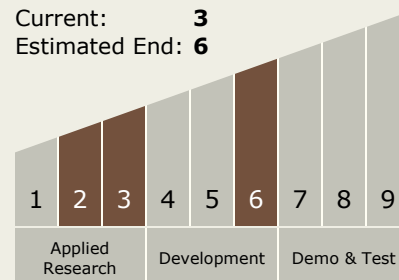
Program Manager:

Peter M Hughes

Project Manager:

Brook Lakew

Principal Investigator:

Michael Collier

Technology Maturity (TRL)

Start: **2**
Current: **3**
Estimated End: **6**

1	2	3	4	5	6	7	8	9
	Applied Research			Development			Demo & Test	

Technology Areas

Primary:

- TX06 Human Health, Life Support, and Habitation Systems
  └ TX06.3 Human Health and Performance
    └ TX06.3.4 Contact-less / Wearable Human Health and Performance Monitoring